weather-proof "hopper" ventilation

safe, easy cleaning

no awkward handling—sashes do not come out

TWIN TILT

the amazing new double-hung wood window with sashes that TILT

manufactured under patent by **BROWN-GRAVES CO.,** Akron 1, Ohio

TWIN TILT

beautiful modern design

looks like a regular double-hung window
works like a regular double-hung window

In addition to its unique tilting feature, the TWIN/TILT window can be used like an ordinary double-hung window, with full-height up-and-down movement of both sashes. Locks closed like a conventional window for full burglar protection.

modern "hopper-type" ventilation uses 100% of wall opening

- more air!
- no drafts!
- perfect ventilation control
- keeps out rain, snow
- no open-window danger for children
- easy operating
- fully weatherstripped

Here is healthful no-draft ventilation that uses *all* the window opening from top to bottom! Both sashes tilt easily to any desired angle and hold their position securely until readjusted. You select the amount of air you want—with dangerous drafts, rain and snow kept out for perfect bad-weather ventilation. Fully weatherstripped for snug winter comfort. The TWIN/TILT window does not interfere with ordinary storm sash or screens.

do your cleaning • painting • glazing

safer • faster • easier

work inside the room!

TWIN TILT

- no more sitting on sills
- no dangerous ladders
- no stretching
- do not remove screens
- do not disturb shades and blinds
- do not disturb air conditioner

SASHES DO NOT COME OUT IN HAND–CAN'T GET MIXED

No handling of heavy sashes—TWIN/TILT sashes are permanently attached to the window frame. Now at last you wash *all* the outside of your window quickly, comfortably and safely—without disturbing screens or storm sash. The TWIN/TILT window works perfectly with air-conditioners—allows quick cleaning of entire outside, gives full "hopper" ventilation when unit is not needed.

TWIN TILT

ideal for institutions as well as modern homes

SCHOOLS • HOSPITALS • APARTMENT HOUSES • OFFICE BUILDINGS • INDUSTRIAL

cut cleaning time and costs

eliminate accident risk

no safety hooks needed

TWIN TILT

a complete wood window unit...

READY TO SET IN THE WALL!

CHOICE OF 2 MODELS

STANDARD—Sashes slide against wooden side jamb of frame, with conventional wooden parting stop.

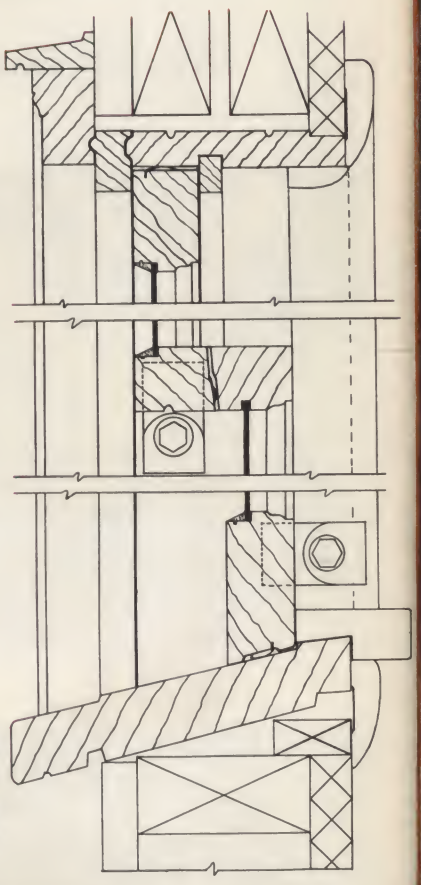
DELUXE—Sashes slide in metal guide tracks for added beauty.

The TWIN/TILT window is a precision-built, high-quality window, made from the finest toxic-treated white pine. It is a completely assembled unit, including glass, sash, frame, balances and hinge hardware—ready to set in the wall!

SPECIAL BALANCES—
No weights, pulleys or cords. Four special concealed spiral balances have adjustable tension springs for quiet, easy up-and-down movement without rattles, sticking or binding.

FULLY WEATHERSTRIPPED—
Full interlocked weather-stripping means no drafts, no leakage in bad weather.

QUALITY UNIT—
All hardware is of sturdy, welded construction, designed for many years of trouble-free service.



FRAME DETAIL

TWIN/TILT window installs like any conventional double-hung window in any type wall construction. SCALE 3"=1'0"

72 STOCK AND MODULAR SIZES TO FIT ANY DOUBLE-HUNG OPENING

There is a TWIN/TILT window for any standard double-hung wall opening—from 16"x 16" sash size to 40"x 30". Plus hundreds of big beautiful TWIN/TILT picture and corner picture windows. See price list for complete range of sizes.

Insist on the genuine TWIN/TILT window for your home. Get TWIN/TILT's beautiful modern styling...TWIN/TILT's unique "hopper-type" ventilation with exclusive health and comfort features...TWIN/TILT's special "wife-saving" and safety advantages.

AT YOUR LUMBER DEALER

WIDE CHOICE OF ALL MODERN STYLES

Shown here are the five most popular styles. Any pattern of divided lights may be had on special order.

Type 1/1

Type 2/2

Type 4/4

Type 6/6

Type 8/8

Specifications Subject to Change Without Notice
"TWIN/TILT" T.M. Reg. Pend.

BROWN-GRAVES CO., Akron 1, Ohio

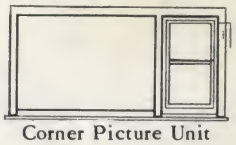
Hardware by Safety Window Hardware Corp., Brooklyn, N. Y. (U.S. Pat. No. 2,666,235)
100M956 Litho in U. S. A.

Price List No. 2 August, 1956

TWIN TILT picture unit....

PRICES INCLUDE CENTER SECTION ONLY

Picture Unit



Corner Picture Unit

ADD PRICE OF (2) SIDE UNITS FOR COMPLETE PICTURE UNIT PRICE.
ADD PRICE OF (1) SIDE UNIT FOR CORNER PICTURE UNIT PRICE.

Height of 2 Lt. Side Windows to Match Center Frame	Picture Section Number	Exact Glass Size of Twindow or Thermopane	Exact Glass Size of D S or 1/4" Plate	Center Frame Open	Center Frame Glazed D S	Center Frame Glazed 1/4" Plate	Center Frame Glazed 1" Twindow or Thermopane
20"	346	36" x 46"	36" x 46"	$16.70	$27.20	$52.95	$74.10
"	446	48½ x 46	48 x 46	19.10	32.00	66.20	96.05
"	546	64½ x 46	64 x 46	21.45	.....	83.05	120.95
"	646	72½ x 46	72 x 46	23.85	.....	92.65	134.35
22	350	36 x 50	36 x 50	16.70	28.20	55.80	78.15
"	450	48½ x 50	48 x 50	19.10	33.55	69.95	102.30
"	550	64½ x 50	64 x 50	21.45	.....	87.95	128.10
"	650	72½ x 50	72 x 50	23.85	.....	98.15	148.20
24	354	36 x 54	36 x 54	16.70	29.40	58.75	97.60
"	454	48½ x 54	48 x 54	19.10	34.00	73.70	124.45
"	554	64½ x 54	64 x 54	21.45	.....	92.85	153.30
"	654	72½ x 54	72 x 54	23.85	.....	105.65	182.70
26	458	48½ x 58	48 x 58	20.50	37.55	78.90	152.95
"	558	64½ x 58	64 x 58	22.90	.....	101.65	199.65
"	658	72½ x 58	72 x 58	25.30	.....	112.90	220.95
"	758	80½ x 58	80 x 58	27.65	.....	124.80	240.90
"	858	96½ x 58	96 x 58	30.05	.....	145.55	279.80
"	958	116½ x 58	116 x 58	32.40	.....	172.10	334.60
30	366	42 x 66	42 x 66	18.15	35.30	76.50	146.70
"	466	56½ x 66	56 x 66	22.90	48.65	100.90	199.65
"	566	64½ x 66	64 x 66	22.90	.....	109.15	240.75
"	666	72½ x 66	72 x 66	25.30	.....	124.50	254.20
"	766	84 x 66	84 x 66	27.65	.....	142.15	270.40
"	866	96 x 66	96 x 66	30.05	.....	159.90	308.95

HOW TO FIGURE BRICK AND ROUGH STUD OPENINGS - PICTURE UNIT

Stud Opening – Width – Add 15 1/2" to sum of 3 glass widths when glazed D S or 1/4" Plate Glass.
Add 15 3/4" to sum of 3 glass widths when glazed Twindow or Thermopane.

Stud Opening – Height – Add 9 1/2" to sum of the top and bottom glass heights of side units.

Brick Opening – Width – Add 17 1/4" to sum of the 3 glass widths when glazed D S or 1/4" Plate Glass.
Add 17 1/2" to sum of the 3 glass widths when glazed Twindow or Thermopane.

Brick Opening – Height – Add 10 3/8" to sum of the top and bottom glass heights of side units.

HOW TO FIGURE ROUGH STUD OPENINGS - CORNER PICTURE UNIT

Stud Opening – Width – Add 9" to sum of 2 glass widths when glazed D S or 1/4" Plate Glass.
Add 9 1/4" to sum of 2 glass widths when glazed Twindow or Thermopane.

Stud Opening – Height – Add 9 1/2" to sum of the top and bottom glass heights of side units.

HOW TO ORDER

Specify picture section number and side units to be used.
(For Example)
24 x 24 2/2 – #654 glazed Twindow or Thermopane – 24 x 24 2/2 Deluxe 5¼" Jamb.

Corner picture unit will include 8" sill extension. Add $3.00 for sill extensions. Specify right or left sill extensions as viewed from the room side.

Prices and Specifications subject to change without notice.

BROWN-GRAVES CO.
Akron 1, Ohio

TWIN TILT window unit...

TYPE 1/1 DELUXE TWIN/TILT UNITS

GLAZED SS - ALL PURPOSE FRAME

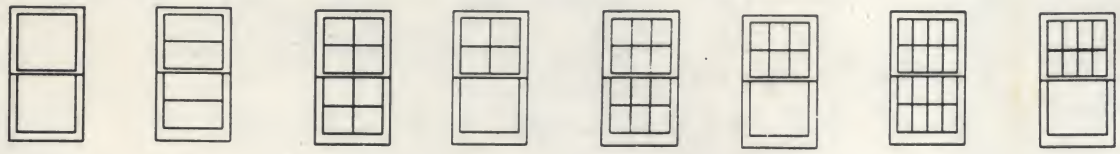
Glass Size - Height → / Sash O.A. - Height →		16" / 3'-2"	18" / 3'-6"	20" / 3'-10"	22" / 4'-2"	24" / 4'-6"	26" / 4'-10"	28" / 5'-2"	30" / 5'-6"
Glass Size Width ↓	Sash O.A. Width ↓								
16"	1'-8"	29.20	29.85	30.55	31.30	31.80	32.65	33.10	35.45
20"	2'-0"	30.50	31.20	32.10	32.80	33.45	33.95	34.55	36.90
24"	2'-4"	31.45	32.30	33.05	33.70	34.60	34.95	35.90	38.35
26"	2'-6"	31.95	32.80	33.50	34.25	35.15	35.75	36.60	38.90
28"	2'-8"	32.40	33.25	33.95	34.75	35.70	36.55	37.25	39.40
30"	2'-10"	33.30	34.05	35.05	35.85	36.80	37.40	38.55	40.70
32"	3'-0"	34.15	34.85	36.10	36.90	37.90	38.20	39.80	41.95
36"	3'-4"	35.30	36.25	37.15	38.10	39.10	39.95	41.20	43.35
40"	3'-8"	37.20	37.60	38.50	40.15	40.50	41.70	43.05	45.25

TYPE 1/1 STANDARD TWIN/TILT UNITS

Glass Size - Height → / Sash O.A. - Height →		16" / 3'-2"	18" / 3'-6"	20" / 3'-10"	22" / 4'-2"	24" / 4'-6"	26" / 4'-10"	28" / 5'-2"	30" / 5'-6"
Glass Size Width ↓	Sash O.A. Width ↓								
16"	1'-8"	25.95	26.65	27.30	28.10	28.60	29.40	29.90	32.25
20"	2'-0"	27.30	27.95	28.90	29.60	30.25	30.75	31.35	33.70
24"	2'-4"	28.20	29.10	29.85	30.50	31.35	31.70	32.70	35.10
26"	2'-6"	28.70	29.55	30.20	31.00	31.90	32.50	33.40	35.65
28"	2'-8"	29.20	29.95	30.75	31.45	32.40	33.30	34.05	36.20
30"	2'-10"	30.10	30.80	31.80	32.60	33.50	34.15	35.35	37.45
32"	3'-0"	30.95	31.65	32.80	33.70	34.60	34.95	36.60	38.65
36"	3'-4"	32.10	33.05	33.90	34.90	35.90	36.80	37.95	40.05
40"	3'-8"	33.95	34.40	35.25	36.90	37.30	38.50	39.85	42.05

All 12" and 14" heights - same price as 16" heights.

For 24/36 Glass Heights - Oriel Window - Add to price of 30" Glass Heights $3.40 per Unit
Window Units include Set-Up Frame completely Weatherstripped, 1 3/8" Glazed Sash Chemically treated, Exterior Casings and Drip Cap.
For Obscure Glass add 5% to Price of Window Unit.



Type 1/1	Type 2/2	Type 4/4	Type 4/1	Type 6/6	Type 6/1	Type 8/8	Type 8/1
as Priced Above	Add $ .90 Per Unit	Add $1.80 Per Unit	Add $ .90 Per Unit	Add $2.70 Per Unit	Add $1.35 Per Unit	Add $3.60 Per Unit	Add $1.80 Per Unit

MULTIPLE UNITS

MULLION UNITS – 2 Times price of Single Unit plus – $1.70

TRIPLE UNITS – 3 Times price of Single Unit plus – $3.40

For 10" Long Sill Horns – $4.50

IF WIDE BLIND STOP IS TO BE USED, ADD. . . . . .

1.50 per Single Unit
1.75 per Twin Unit
2.00 per Triple Unit
2.00 per Picture Unit
1.75 per Corner Picture Unit

WHEN ORDERING WINDOW UNITS

. Specify Width of Jamb required.

. Standard or Deluxe Hardware

. Type of Unit (Arrangement of Lites)

MULTIPLE UNITS (ROUGH STUD OPENING WIDTHS)

TWIN – (2½" mullion) add 12¾" to sum of two glass widths
TRIPLE – (2½" mullion) add 19¼" to sum of three glass widths
QUAD. – (2½" mullion) add 25¾" to sum of four glass widths

ROUGH STUD OPENING

Width – Add to Glass Size – 6 1/4 inches
Height – Add to Sum of Glass Sizes – 9 1/2 inches

BRICK OPENINGS

Width – Add 1 3/4" to Rough Stud Opening
Height – Add 7/8" to Rough Stud Opening.

Orders amount to $100.00 list, Freight allowed. Prices are subject to change without notice.
Window Units cannot be returned for Credit.

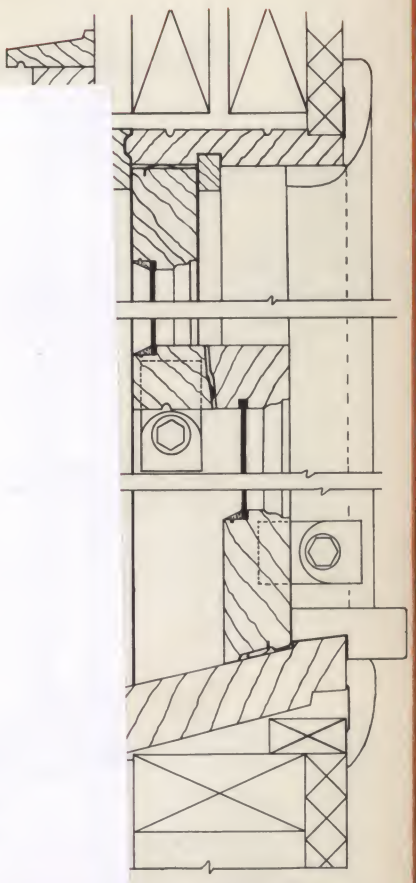
BROWN-GRAVES COMPANY
Akron 1, Ohio

TWIN TILT

a complete wood window unit...

READY TO SET IN THE WALL!

The TWIN/TILT window is a precision-built, high-quality window, made from the finest toxic-



CHOICE OF 2 MODELS

STANDARD—
wooden side ja
conventional wo

DELUXE—Sash
guide tracks f

72 S

OPENING

There is a TWIN
double-hung wall
sash size to 40″x
TWIN/TILT pict
See price list for c

Insist on the genu
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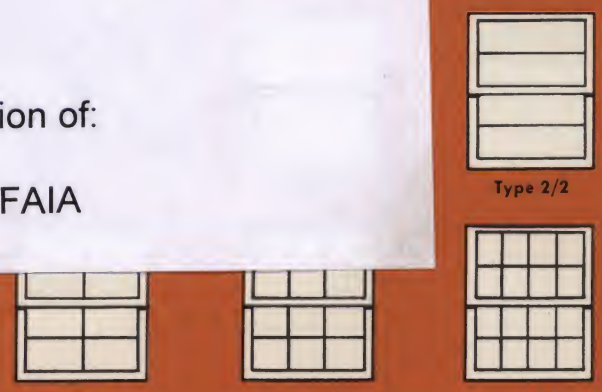
ERN STYLES



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